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The sulfidization of CeO_2 was best accomplished by introducing dry H_2S over CeO_2 at 900°C. The addition of carbon contaminated the end product with carbides, and the addition of sulfur only rendered the procedure more complicated. The synthesis of monosulfide, was conducted according to the reaction $Ce_2S_3 + CeO_2 + 2C \rightarrow 3CeS + 2CO$. The reaction was carried out in a vacuum electric furnace at 1500-1600°C. The reaction products were contaminated with carbides and oxysulfides of cerium; the pure product was obtained after subsequent second heating with an addition of 70% of the initial stoichiometric quantity of Ce_2S_3.
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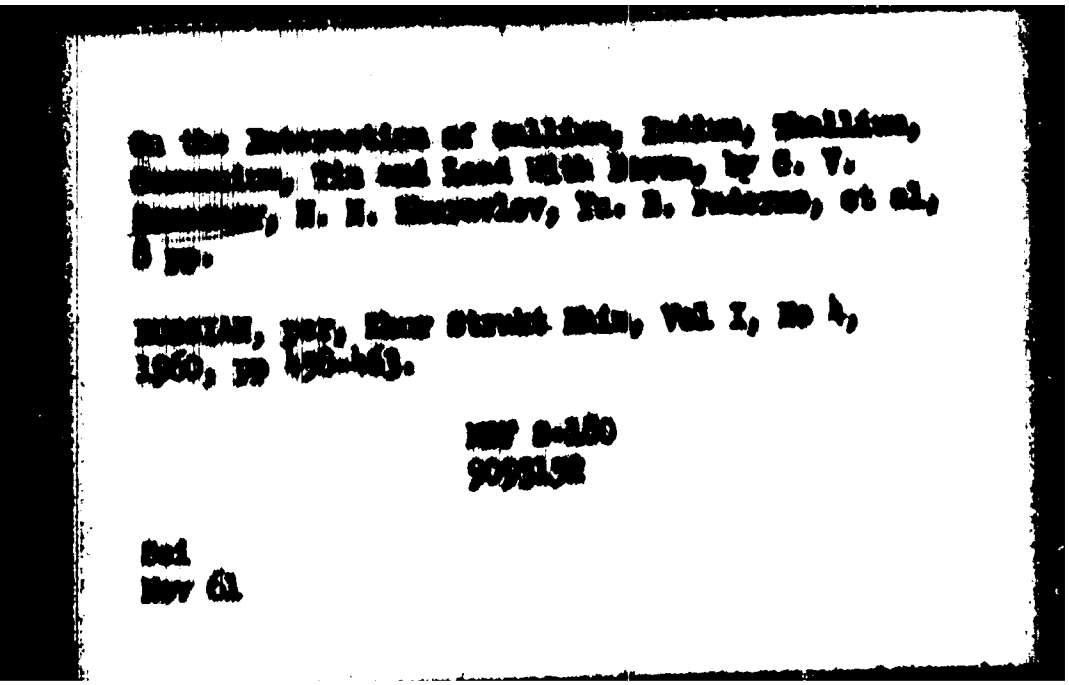

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Some Physicochemical Properties of Compounds of the Transitional Refractory Metals With Boron, Carbon and Nitrogen, and the Characteristics of Their Binary Alloys, by G. V. Samsonov, 40 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol XXVII, 1956, pp 9-12?.

SLA Tr R-199
AEC Tr 3016

Sci
Aug 56

73,578

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

Samsonov, G. V. and Grodshtein, A. E.
SOME PROPERTIES OF THE ALKALINE AND RARE EARTH METAL HEXABORIDES. [1962] [6]p. 19 refs. Order from OTS or SLA $1.10 62-20149

Trans. of Zhur[nal] Fiz[icheskoi] Khim[ii] (USSR) 1956, v. 30 [no. 2] p. 379-381.

DESCRIPTORS: *Borides, *Rare earth elements, *Alkaline earth elements, Boron compounds, Structural properties.

The hexaborides of Ce, La, Ba and Ca were prepared by a vacuum-thermal method. On the basis of a tensimetric analysis of the reaction $2CeO_2 + 3B_4C + C = 2CeB_6 + 4CO$ it was established that this reaction proceeds in several stages involving the intermediate formation of the lower oxides of cerium Ce_4O_7 and Ce_2O_3, and the heats of formation of these oxides as

(Chemistry--Physical, TT, v. 9, no. 10) (over)

62-20149

I. Samsonov, G. V.
II. Grodshtein, A. E.

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

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Intermediate Stages of the Reactions in the Formation of Carbides of Titanium, Zirconium, Vanadium, Niobium and Tantalum, by G. V. Samsonov, 19 pp.

RUSSIAN, por, Ukrain Khim Zhur', Vol XXIII, 1956, pp 287-296.

AEC 3387

Sci - Chem

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Properties of Hexaborides of Alkali-and Rare Earth-metals, by G. V. Samsonov, ~~and co-workers~~, et al 3 pp.

RUSSIAN, no per, Zhur Fiz Khim, Vol XXX, No 2, 1956, pp 379-382.

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Metal-Thermal Methods in Chemistry and Metallurgy, by G. V. Samsonov, et al.

RUSSIAN, no per, Uspekh Khim, Vol XXV, No 10, 1956, pp 1223-1248.

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Sci - Chem
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APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

G. V. SAMSONOV

Activation Energy for Diffusion in Boron, Carbon, Nitrogen and Silicon in Refractory Group Metals, by G. V. Samsonov.
RUSSIAN, per, Trudy Konferentsiy Po Khimiy Bora i Ego Soedineniy, 1955, pp 74-89.
*NTIS TT 72-52019

Avail TT

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

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Metallo-Ceramic Hard Alloys With Non-Uniform Distribution of Carbide Constituents for Working Abrasive Materials, by G. A. Meyerson, G. V. Samsonov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Tekh Nauk, No 4, 1956, pp 121-125.

Sci Mus Lib Tr 56/3881

Sci - Min/metals
May 57 CIS/dex

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Physiochemical Properties of Boron-Carbon Alloys, by G. V. Samsonov, N. N. Zhuravlev, I. G. Ammel, 7 pp.

RUSSIAN, per, Fiz Metall i Metallov (USSR), No 3, 1956, pp 309-313.

LC or SLA 59-10060

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Diffusion of Boron, Carbon and Nitrogen Into Transition Metals of IV, V and VI Groups of the Periodic Table, by G. V. Samsonov, V. P. Latisheva, 5 pp.

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Ion Exchange Chromatography of Streptomycin on Permutite, by S. E. Bresler, G. V. Samsonov, 4 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 2, Mar/Apr 1956, pp 155-157. CIA 9001313 C, Reel No 55

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Chemistry of the Borides, by G. V. Samsonov, L. Ya. Markovskiy, 52 pp.

RUSSIAN, no per, Uspekh Khim, Vol XXV, No 2, 1956, pp 190-241.

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Sci - Chemistry

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APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

Samsonov, G. V. and Golubeva, N. K.
THE MECHANISM OF AND RULES GOVERNING THE OXIDATION OF HARD HIGH-MELTING TITANIUM COMPOUNDS (Nekotorye Zakonomernosti i Mekhanizm Okisleniya Tverdykh Tugoplavkikh Soedinenii Titana), Sep 61 [14]p. 15 refs. RTS 1944. Order from OTS or SLA $1.60 61-28160

Trans. of Zh[urnal] Fiz[icheskoi] Khim[ii] (USSR)1956, v. 30, no. 6, p. 1258-1266.

DESCRIPTORS: *Titanium compounds, *Carbides, *Nitrides, *Borides, Oxidation, Temperature, Hardness, *Oxides, Chemical analysis, X-ray diffraction analysis, Electron diffraction analysis.

It has been found that the oxidation isotherms for dense compacted specimens of titanium carbide and nitride consist of two sections, an initial curved section
(Chemistry--Physical, TT, v. 6, no. 12) (over)

61-28160

I. Samsonov, G. V.
II. Golubeva, N. K.
III. RTS-1944
IV. Department of Scientific and Industrial Research (Gt. Brit.)

Office of Technical Services

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

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Tantalum and Niobium in Chemical Industry, by G. V. Samsonov, V. I. Konstantinov, 18 pp. UNCLASSIFIED

RUSSIAN, per; Khim Nauka i Prom, Vol V, No 5, 1956, pp 517-522.

Sci Mus Lib Tr 57/4325

Sci - Chem
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Effect of the Degree of Swelling of Ion-Exchange Resins on the Selectivity of Sorption of Aureomycin, Terramycin, and Streptomycin Ions by Cation-Exchange Resins, by G. V. Samsonov, 6 pp.

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Sci - Chemistry
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Statics and Dynamics of Aureomycin and Terramycin Ion Exchange With Hydrogen and Sodium Ions on Cationites, by[illegible]. V. Samsonov, L. M. Sharvalova, M. P. Shesterikova, S. F. Lavrentyeva, V. S. Maslennikova, A. A. Kononova, V. V. Bokareva, 6 pp.

RUSSIAN, bimo per, Kolloid Zhur, Vol XVIII, No 4, Jul/Aug 1956, pp 474-489.

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The Sorption and Chromatography of Aureomycin,
by G. V. Samsonov, S. E. Breslar, N. A. Rosentsveig,
4 pp.

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Jul/Aug 1956, pp 470-473.

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RUSSIAN, biwe per, Uspekh Khim, Vol XXIV, No 8, 1955, pp 985-1009.

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Reduction of Titanium Dioxide by Carbon Proceeding Through Lower Oxides, by G. V. Samsonov, 4 pp.

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RUSSIAN, no per, Zhur Prik Khim, Vol XXVIII, No 9, 1955, pp 1018-1021. CIA C 42516

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Mechanism of Surface Impregnation of Iron and Steel With Boron, by G.V. Samsonov, N. Ya. Tsetina.

RUSSIAN, per, Fizika Metallov i Metallovedenie, Vol I, No 2, 1955, pp 303-306.

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Sci - Minerals/Metals, Chemistry

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A Method of Producing Boron Nitride, by G. A. Meyerson, G. V. Samsonov, N. Ya. Tseitina.

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DSIR LLU M.1155
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Sci - Engr

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Compressibility of Powders of Borides, Carbides, and Nitrides of High-Melting Metals, by G.V. Samsonov, V. S. Neshpor

RUSSIAN, thrice mo per, Dok Ak Nauk SSSR, Vol 104, No 3, 1955, pp 405-408

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Study of Some Relationships in the Formation of Alloys of Isomorphic Borides, by G. V. Samsonov, V. S. Neshpor.

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Investigations of Interdiffusion of Titanium and Columbium Borides, by G. V. Samsonov, V. S. Neshpor,

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Ex 25,977 Brutcher Tr 3557 $2.45

Scientific - Min/Metals Aug 55 CTS

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Some Physico-Chemical Properties of 'Alloys' of Titanium Boride and Nitride, by G. V. Samsonov, E. V. Petrash.

RUSSIAN, per, Metallovedenie i Obrabotka Metallov, Vol I, No 4, 1955, pp 19-24.

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Scientific - Min/Metals May 56 CTS/DEX

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

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LC or SLA 59-10016

Sci - Chemistry
Feb 59

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Some Physico-Chemical Properties of Systems Formed by Titanium- and Zirconium-Borides, by G. A. Meyerson, G. V. Samsonov, R. B. Kotelnikov. UNCLASSIFIED

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Vol XXV, 1954, pp 89-93.

Sci Mus Lib 57/4487

Sci - Phys; Chem
Xmm Sep 58

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The Problem of the Solubility of Boron and Carbon in Boron Carbide $B_{12}C_3$(B_4C), by G. S. Zhdanov, G. A. Meerson, N. N. Zhuraveyev, G. V. Samsonov.

RUSSIAN, no per, Zhur Fiz,Khim, Vol XXVIII, 1954, pp 1076-1082.

AEC Tr 3074

Sci - Chem

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Nov 57

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Displacement of Chemical Equilibrium in a Surface Layer, by S. Z. Roginskiy, G. V. Semenov, 5 pp.

Full translation

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Scientific - Chemistry OTS 66/Mar 55

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Physical Properties of Some Interstitial Phases, by G. V. Samsonov. UNCLASSIFIED

RUSSIAN, per, Dok Ak Nauk SSSR, vol XCIII, No 4, 1953, pp 689-692.

Brutcher Tr 3237

Scientific - Minerals/Metals

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Price $4.75

APPROVED FOR RELEASE: Wednesday, May 22, 2002 CIA-RDP91-00772R000100090009-9

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Investigation of the Melting Point Diagram of the Boron-Carbon System and Nature of Phases in This System, by G. A. Meerson, G. V. Samsonov, 17 pp.

RUSSIAN, per, Iz Sektora Fiz Khim Anal Inst Obshchet Neorg Khim, Ak Nauk SSSR, Vol XXII, 1953, pp 92-103.

AEC Tr 3317

Sci - Chem

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Sep 58

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Heats of Disintegration in the Diffusion of Boron Into Tungsten and Molybdenum Metal, by G. V. Samsonov, UNCLASSIFIED

RUSSIAN, thrice-mo per, Dok Ak Nauk SSSR, Vol XCIII, No 5, 1953, pp 859-861.

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Scientific - Min/Metals

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$2.75

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The Problem of the Oxidizability of Boron Nitride,
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Full translation

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ZAMYATNINKII, I. L.
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FUROVA, M. V.

Preparation of Single Crystals of Boron Carbides.

DOKLADY AKADEMII NAUK SSSR, vol 74, 1950, No 4,
pp 723-4; 700 words.

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A-9444

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Enzymatic Synthesis Under Pressure, by S. E. Bresler, G. V. Samsonov, and M. A. Seleznova, 17 pp.

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[redacted]

The Mechanism of Sorption of Dipolar Ions by Ionites, by G. V. Samsonov, E. P. Gunarova, A. M. [illegible]

[illegible], ser., Dok Ak Nauk SSSR, [illegible] 2, 1957, pp 391-393.

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Def - Chemistry
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The Relation of Thermo-Emission Constants of Transition Metals (and their Compounds with Some Metalloids) to Their Electron Structure, by G. V. Samsonov, V. S. Neshpor, and G. A. Kudintseva, 7 pp.

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Pergamon Inst

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Nov 58

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New Borides of Rare Earth Elements, by V. S. Neshpor, G. V. Samsonov, 2 pp.

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AEC Tr 3653

Sci - Chem

Jun 59

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Investigation of the Resistance of Oxidation of Alloys of Titanium and Niobium Borides, by V. S. Neshpor, G. V. Samsonov, 5 pp.

RUSSIAN, per Zhur Prik Khim, Vol XXX, No 11, 1957, pp 1684-1688.

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Feb 59

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Phases of the Tungsten-Boron System, by G. V. Samsonov, 4 pp.

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Dynamics of Streptomycin Sorption by Carboxy-
[illegible] in the Presence of Polyvalent Metal Ions
by G. F. Samsonov, et al. UKCL

[illegible], per, Antibiotiki, No 2, 1957, pp 32-35.

DSIR LLU (loan) M.292

Sci - Med
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R-1794 (NY-1579)

Forty Years of Soviet Powder Metallurgy, by
M. Yu. Bal'shin, G. V. Samsonov, 19 pp.

RUSSIAN, no per, Metal i Obrabotka Metallov, No 12,
Moscow, Dec 1957, pp 15-25.

US JPRS/NY-L-224

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Powder metallurgy

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Properties of Ternary Alloys of the Diborides of Titanium, Chromium, and Zirconium, by K. I. Portnoy, G. V. Samsonov.

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Brutcher Tr 4273
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Sci - Min/Met

Sep 58

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The Preparation and Some Features of Thorium Sulfides, by G. V. Samsonov, N. M. Popova, 8 pp.

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Sorption of Dipolar Ions by Ion Exchange Resins, by G. V. Samsonov, N. P. Kuznetsova, M. D. Fadeyeva, 1 p. UNCLASSIFIED

RUSSIAN, theses, Tezisy Dokladov iX Konferentsii po Obshchim Voprosam Khimii i Fiziki Vysokomolekulyarnykh Soyedineniy, Moscow, Jan 1957, pp 178, 179.

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59,147

Sci - Physics
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Exchange of Sodium and Calcium Ions on Swelling Sulfonic and Carboxylic Resins, by O. V. Samsonov, A. A. Vasilyev, V. A. Orestova, 6 pp.

RUSSIAN, pur, Kolloid Zhur, Vol XIX, No 6, 1957, pp 730-735.

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Sci - Chem

Jan 59

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Reciprocal Displacement of Components in Ion Exchange Chromatography, by G. V. Samsonov, V. A. Orestova, 4 pp.

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Sci - Chem

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Hard Compounds of Refractory Metals, by G. V. Samsonov, Ya. S. Umanskiy.

RUSSIAN, bk, Tverdyye Soyedineniya Tugoplavkikh Metallov, Moscow, 1957, 388 pp.

NASA:TT F-102

Sci - Minerals/Metals
Jun 63

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